| Index of Claims |  |
|-----------------|--|
|                 |  |

| Application No. | Applicant(s) |
|-----------------|--------------|
| 10/763,142      | YE ET AL.    |
| Examiner        | Art Unit     |
| Edward Raymond  | 2857         |

| √ | Rejected |
|---|----------|
| = | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| ı | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| _Cla  | aim                                                                                                                                                                     |              |              |              |                | Date     | •            |          |                                                  |                | l |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|----------------|----------|--------------|----------|--------------------------------------------------|----------------|---|
| Final | Original                                                                                                                                                                |              |              |              |                |          |              |          |                                                  |                |   |
|       | 1                                                                                                                                                                       |              |              |              |                |          |              |          |                                                  |                |   |
|       | 2                                                                                                                                                                       |              |              |              |                |          |              |          |                                                  |                | ı |
|       | 3                                                                                                                                                                       |              |              |              |                |          |              |          |                                                  |                | l |
|       | 4                                                                                                                                                                       |              |              | _            |                |          |              | _        |                                                  | _              | Į |
|       | 5                                                                                                                                                                       |              |              | _            | Ш              |          |              |          |                                                  |                | Į |
|       | 6                                                                                                                                                                       |              |              |              | $\sqcup$       |          |              |          |                                                  |                | ļ |
|       | /                                                                                                                                                                       |              |              |              | _              |          |              |          |                                                  | _              | ł |
|       | 8                                                                                                                                                                       | _            | _            | <u> </u>     | -              |          |              |          |                                                  | _              | ł |
|       | 10                                                                                                                                                                      |              |              | _            | -              | _        |              |          | -                                                |                | i |
|       | 11                                                                                                                                                                      |              |              |              | -              |          | -            | -        |                                                  | -              | ł |
|       | 12                                                                                                                                                                      |              |              |              | -              | $\vdash$ |              | $\vdash$ | Н                                                |                | l |
| _     | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>27<br>28<br>29<br>30 |              |              |              |                |          |              |          |                                                  |                | ١ |
|       | 14                                                                                                                                                                      |              | $\vdash$     | $\vdash$     |                |          |              |          |                                                  |                | ١ |
|       | 15                                                                                                                                                                      |              |              |              |                |          |              |          |                                                  |                | ١ |
|       | 16                                                                                                                                                                      |              |              |              |                |          |              | Г        |                                                  |                | i |
|       | 17                                                                                                                                                                      |              |              |              |                |          |              |          |                                                  |                | ĺ |
|       | 18                                                                                                                                                                      |              |              |              |                |          |              |          |                                                  |                | ĺ |
|       | 19                                                                                                                                                                      |              |              |              |                |          |              |          |                                                  |                | l |
|       | 20                                                                                                                                                                      |              |              |              |                |          |              |          |                                                  |                | l |
|       | 21                                                                                                                                                                      |              |              |              |                |          |              |          |                                                  |                | ١ |
|       | 22                                                                                                                                                                      |              |              | <u> </u>     |                |          |              |          | _                                                | _              | l |
|       | 23                                                                                                                                                                      |              |              | L            |                |          |              | L.       |                                                  | _              | ١ |
|       | 24                                                                                                                                                                      |              | _            | _            | _              |          | $oxed{oxed}$ | L        | _                                                | _              | l |
|       | 25                                                                                                                                                                      |              |              | _            |                | _        |              | <u> </u> | _                                                | _              | ł |
|       | 26                                                                                                                                                                      | _            |              | <u> </u>     | _              | L        |              | _        | _                                                | <u> </u>       | l |
|       | 2/                                                                                                                                                                      | $\vdash$     | <u> </u>     | _            | _              | <u> </u> | _            | -        | <u> </u>                                         |                | ł |
|       | 28                                                                                                                                                                      |              | <u> </u>     | _            | ⊢              | _        | <u> </u>     | -        | ┝                                                |                | ł |
|       | 29                                                                                                                                                                      | H            | _            | ┝            |                | _        | _            | -        | -                                                | _              | l |
|       | 31                                                                                                                                                                      | _            | _            | ⊢            |                |          | $\vdash$     | -        | $\vdash$                                         | -              | l |
|       | 32                                                                                                                                                                      | $\vdash$     | _            | $\vdash$     | -              | -        | $\vdash$     | -        |                                                  |                | l |
|       | 33                                                                                                                                                                      | $\vdash$     |              | -            | $\vdash$       | -        | -            | -        |                                                  |                | I |
|       | 34                                                                                                                                                                      | $\vdash$     |              | $\vdash$     | $\vdash$       | $\vdash$ |              | $\vdash$ |                                                  |                | ĺ |
|       | 35                                                                                                                                                                      | $\vdash$     |              | Ι-           |                | $\vdash$ | $\vdash$     | _        | <del>                                     </del> |                | ۱ |
|       | 36                                                                                                                                                                      | $\vdash$     |              | $\vdash$     |                |          | $\vdash$     |          |                                                  |                | i |
|       | 37                                                                                                                                                                      |              |              |              | $\Box$         |          |              |          |                                                  |                | ĺ |
|       | 38                                                                                                                                                                      |              |              |              |                | Г        |              |          |                                                  |                | 1 |
|       | 32<br>33<br>34<br>35<br>36<br>37<br>38<br>39                                                                                                                            |              |              |              |                |          |              |          |                                                  |                | ] |
|       | 40                                                                                                                                                                      |              |              |              |                |          |              |          |                                                  |                | ١ |
|       | 41                                                                                                                                                                      |              |              |              | 匚              | Ĺ        |              |          |                                                  |                | ١ |
|       | 42                                                                                                                                                                      | <u> </u>     | L            |              | <u>_</u>       | <u> </u> | <u> </u>     | <u> </u> | <u> </u>                                         | <u> </u>       | ļ |
|       | 43                                                                                                                                                                      | <u> </u>     | <u> </u>     | igspace      | <b> </b>       | <u> </u> | <u> </u>     | <u> </u> | <u> </u>                                         | <u> </u>       | ١ |
|       | 44                                                                                                                                                                      | <u> </u>     | _            | _            | _              |          | <u> </u>     | _        | <u> </u>                                         | _              | ļ |
|       | 45                                                                                                                                                                      | <u> </u>     | _            | <b>—</b>     | <u> </u>       |          | <u> </u>     | <u> </u> | <u> </u>                                         | <u> </u>       | ļ |
|       | 46                                                                                                                                                                      | ⊢            | <del> </del> | <del> </del> | <del> </del>   | <u> </u> | $\vdash$     |          |                                                  |                | ł |
|       | 47                                                                                                                                                                      | <del> </del> |              | -            | <del>  -</del> | ├-       | L            | ⊢        | <u> </u>                                         | <del>  -</del> | ł |
|       | 48<br>49                                                                                                                                                                |              | $\vdash$     | ⊢            | <del> </del> — | ├-       | $\vdash$     | $\vdash$ | -                                                | $\vdash$       | ١ |
|       |                                                                                                                                                                         |              |              |              |                |          |              |          |                                                  |                |   |

|      | Cla                             | im                   | Date     |              |               |                |          |              |          |          |          |
|------|---------------------------------|----------------------|----------|--------------|---------------|----------------|----------|--------------|----------|----------|----------|
|      |                                 |                      |          |              |               | ΠĪ             |          |              |          |          |          |
|      | Final                           | Original             | 11/19/04 |              |               |                |          |              |          |          |          |
|      | 1                               | 51                   | =        |              |               |                |          |              |          |          |          |
|      |                                 | 52                   | =        |              |               |                |          |              |          |          |          |
|      | 3                               | 53                   | Ī        |              | _             |                |          | $\neg$       |          |          |          |
|      | 4                               | 54                   | =        |              | _             |                |          | $\neg$       | _        |          |          |
|      |                                 | 52<br>53<br>54<br>55 |          |              | _             | Н              | $\dashv$ | -            |          |          | -        |
|      | -                               | 56                   | -        | _            | _             |                | $\dashv$ | $\dashv$     |          |          | _        |
|      | -                               | 57                   | -        |              |               | -              | -        | $\dashv$     | _        | _        | _        |
|      | 2<br>3<br>4<br>5<br>6<br>7<br>8 | 57<br>58             | =        | -            |               | $\vdash$       |          | $\dashv$     | _        | _        | _        |
|      | <u>~</u>                        | 50                   |          |              |               |                | -        | _            | _        |          |          |
|      |                                 | 59                   | =        |              |               | Н              |          |              | _        |          | _        |
|      | 10                              | 60<br>61             | =        | _            | _             | Н              | -        | -            |          |          | _        |
|      | 11                              | 61                   | -        |              |               | -              | -        |              |          | _        | _        |
|      | 11<br>12<br>13<br>14<br>15      | 62<br>63             | ٥        | $\vdash$     |               | $\vdash\vdash$ | -        | $\dashv$     |          | _        | _        |
|      | 13                              | 03                   | =        |              |               | $\vdash$       | -        | -            |          |          | -        |
|      | 14                              | 64<br>65             | =        |              |               | $\vdash$       | -        | _            |          |          | _        |
|      | 15                              | 65                   | =        |              |               | -              | -        | _            |          |          |          |
|      | 16<br>17                        | 66<br>67             | =        |              |               |                |          | _            | _        |          |          |
|      | 17                              | 67                   | =        |              | _             | $\vdash$       | _        |              |          |          | _        |
|      | 18<br>19                        | 68                   | =        |              |               |                |          |              |          |          | _        |
|      | 19                              | 69                   | =        | _            | _             |                |          |              |          |          |          |
|      | 20                              | 70<br>71<br>72<br>73 | =        |              |               |                |          |              |          |          | _        |
|      | 21<br>22<br>23                  | 71                   | =        |              |               |                |          |              |          |          |          |
|      | 22                              | 72                   | ==       |              | $\sqsubseteq$ |                |          |              |          | _        |          |
|      | 23_                             | 73                   | =        |              |               |                |          |              |          |          |          |
|      | 24<br>25<br>26                  | 74<br>75<br>76       | =        |              |               |                | _        |              |          |          |          |
|      | 25                              | 75                   | =        |              | <u> </u>      |                |          |              |          |          |          |
|      | 26                              | 76                   | =        |              |               |                |          |              |          |          |          |
|      | 27<br>28                        | 77                   | =        |              |               |                |          |              |          |          | _        |
|      | 28                              | 78                   | =        |              |               |                |          |              |          |          | _        |
|      | 29                              | 79                   | =        |              |               |                |          |              |          |          | Щ        |
|      | 30                              | 80                   | =        |              | <u> </u>      |                |          |              |          |          | L        |
|      | 31                              | 81                   | =        |              |               | Ш              |          |              |          |          | <u> </u> |
|      | 32<br>33                        | 82<br>83             | =        |              | _             |                |          |              | ·        | Щ.       | <u> </u> |
|      | 33                              | 83                   | =        | <u> </u>     | Ŀ             |                |          |              |          | <u> </u> | _        |
|      | 34                              | 84                   | =        |              | <u> </u>      |                |          |              | $\vdash$ | _        |          |
|      | 35                              | 85                   | n-       | _            | _             | _              |          |              | _        | _        |          |
|      | 36                              | 86                   | =        |              |               |                |          |              |          | <u> </u> | -        |
|      | 37<br>38                        | 87<br>88             | =        | _            |               | _              |          |              |          | <u> </u> | ├-       |
|      | 38                              | 88                   | =        |              |               | <u> </u>       |          |              | _        | _        | -        |
|      | 39                              | 89                   | =        | _            | _             | <u> </u>       |          | _            |          | -        | ┝        |
|      | 40                              | 90                   | Ē        |              | <u> </u>      | <u> </u>       | _        | $\vdash$     |          | _        | ├        |
|      | 41                              | 91                   | ⋢        |              | $\vdash$      | <u> </u>       |          |              |          | ┝        |          |
|      | 42                              | 92                   | =        | -            | -             | $\vdash$       | -        |              |          | ├        | ⊢        |
|      | 43                              | 93                   | 트        | ⊢            | <del> </del>  | $\vdash$       | $\vdash$ | $\vdash$     | <u> </u> | $\vdash$ | -        |
|      | 44                              | 94                   | =        | <del> </del> | $\vdash$      | H              |          | <del> </del> | <u> </u> | $\vdash$ | -        |
|      | 45                              | 95                   | =        | <u> </u>     | -             |                | $\vdash$ | $\vdash$     | <u> </u> | $\vdash$ |          |
|      | 46                              | 96                   | =        | -            | <del> </del>  | -              | $\vdash$ | H            | <u> </u> | ┝        | $\vdash$ |
|      | 47                              | 97                   | =        | -            | $\vdash$      | $\vdash$       |          | <del> </del> | -        | ├—       | $\vdash$ |
|      | 48<br>49                        | 98<br>99             | =        | ┝            | ├─            | -              | -        | $\vdash$     |          | -        | -        |
|      | 50                              | 100                  | =        | -            | $\vdash$      | $\vdash$       | -        | $\vdash$     | $\vdash$ | -        | $\vdash$ |
| :::: |                                 | 100                  | ᅳ        | <u> </u>     | Ц.            |                | _        |              |          | ١.,      | ١        |

| Cla             | г                               |                |                                                  | _            | Date                                             |                                                  |                                                  |                | $\neg$           |              |
|-----------------|---------------------------------|----------------|--------------------------------------------------|--------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|----------------|------------------|--------------|
| <u>'</u>        |                                 | $\vdash$       | _                                                |              |                                                  | - 4(                                             | Ť                                                |                |                  | 一            |
| Final           | Original                        | 11/19/04       |                                                  |              |                                                  |                                                  |                                                  |                |                  |              |
| 51              | 101                             | =              |                                                  |              |                                                  |                                                  |                                                  |                |                  |              |
| 52              | 102                             | =              | Г                                                |              |                                                  |                                                  |                                                  |                |                  |              |
| 53              | 103                             | =              | Г                                                |              |                                                  |                                                  |                                                  |                | "                |              |
| 54              | 104                             | =              |                                                  |              |                                                  |                                                  | $\vdash$                                         | _              |                  | •            |
| 55              | 105                             | =              |                                                  |              |                                                  |                                                  | _                                                | $\vdash$       | $\vdash$         | $\vdash$     |
| 56              | 106                             | +              | $\vdash$                                         | H            |                                                  | -                                                | ⊢                                                | -              | $\vdash$         | $\vdash$     |
| 56<br>57        | 106<br>107                      | =              | -                                                | $\vdash$     |                                                  | -                                                | -                                                |                |                  | Н            |
| 58              | 108                             | =              | -                                                | $\vdash$     |                                                  | _                                                | ┝                                                | _              | $\vdash$         | -            |
| 59              | 109                             | =              | -                                                | $\vdash$     | -                                                | _                                                | -                                                | -              | _                | Н            |
| 60              | 110                             | =              | -                                                | H            |                                                  |                                                  | $\vdash$                                         |                | -                | Н            |
| 61              | 111                             | ▐▔             |                                                  | $\vdash$     |                                                  |                                                  | -                                                | -              | -                | Н            |
| 62              | 111                             | =              |                                                  | Н            |                                                  | _                                                | -                                                | _              | -                | Н            |
| 63              | 112<br>113                      | =              |                                                  |              |                                                  | -                                                |                                                  | -              | -                | Н            |
| 64              | 114                             | =              | _                                                | $\vdash$     | -                                                | -                                                | -                                                | -              | -                | Н            |
| 65              | 115                             | =              |                                                  |              |                                                  |                                                  |                                                  | -              | -                | Н            |
| <del>  55</del> | 116                             | Ē              | <del>                                     </del> | $\vdash$     | _                                                | $\vdash$                                         |                                                  | -              | H                | H            |
| $\vdash$        | 117                             | $\vdash$       | -                                                |              | _                                                | -                                                | $\vdash$                                         |                | $\vdash$         | Н            |
| <b> </b>        | 118                             | <del>  -</del> | -                                                |              | _                                                | _                                                |                                                  |                | $\vdash$         | Н            |
| -               | 119                             | _              | ┢                                                | $\vdash$     |                                                  |                                                  |                                                  | _              |                  | Н            |
|                 | 120                             |                | -                                                | _            | _                                                | _                                                | _                                                | П              |                  | М            |
| $\vdash$        | 120<br>121                      | 1              |                                                  |              | $\overline{}$                                    |                                                  |                                                  |                |                  | П            |
|                 | 122                             |                |                                                  |              |                                                  |                                                  |                                                  |                |                  | П            |
|                 | 122<br>123<br>124               |                |                                                  |              |                                                  |                                                  |                                                  |                |                  | П            |
|                 | 124                             |                |                                                  |              |                                                  |                                                  |                                                  |                |                  |              |
|                 | 125                             |                |                                                  |              |                                                  |                                                  |                                                  |                |                  |              |
|                 | 125<br>126<br>127<br>128<br>129 |                |                                                  |              |                                                  |                                                  |                                                  |                |                  |              |
|                 | 127                             |                |                                                  |              |                                                  |                                                  |                                                  | L              |                  |              |
|                 | 128                             |                | _                                                |              |                                                  |                                                  |                                                  |                |                  |              |
|                 | 129                             | _              | _                                                |              |                                                  |                                                  |                                                  |                |                  | Ш            |
|                 | 130<br>131<br>132               |                | Ľ.                                               |              |                                                  | _                                                |                                                  |                | _                | Ш            |
|                 | 131                             |                | L                                                | _            |                                                  | <u> </u>                                         |                                                  |                | _                |              |
|                 | 132                             |                | L                                                | _            | lacksquare                                       | _                                                | <u> </u>                                         |                | _                | Щ            |
|                 | 133<br>134                      | <u> </u>       | <u> </u>                                         | L            |                                                  | <u>L</u>                                         | <u> </u>                                         | <u> </u>       |                  | Ш            |
| <u></u>         | 134                             | <u> </u>       | _                                                | <u> </u>     |                                                  | <u> </u>                                         | <u> </u>                                         | <u> </u>       | <u> </u>         | Ш            |
|                 | 135                             |                | <u> </u>                                         | _            | _                                                | <u> </u> _                                       | <del> </del>                                     |                | <u> </u>         | $\sqcup$     |
|                 | 136                             | <u> </u>       | <u> </u>                                         | _            | <u> </u>                                         | ⊢                                                | <b>!</b> —                                       | <u> </u>       | <u> </u>         | Н            |
|                 | 137                             |                | <u> </u>                                         | <u> </u>     | <u> </u>                                         | <u> </u>                                         | ├-                                               | ├              | <u> </u>         |              |
| <u> </u>        | 138                             | <u> </u>       | _                                                | <u> </u>     | <u> </u>                                         | ├-                                               | <b>!</b>                                         | ├              | <del> </del>     | Щ            |
| <u></u>         | 139                             | _              |                                                  | -            | -                                                | <u> </u>                                         | <del> </del>                                     | -              | ├                | $\vdash$     |
|                 | 140                             |                | <del> </del> —                                   | $\vdash$     | <u> </u>                                         | <u> </u>                                         | $\vdash$                                         | ├—             | <del>  -  </del> | -            |
|                 | 141                             | <del> </del>   | -                                                | ⊢            | <del> </del>                                     | ├-                                               | ├—                                               | <del>  -</del> | <del> </del>     | <del> </del> |
| -               | 142                             |                | -                                                | ⊢            | -                                                | -                                                | $\vdash$                                         | ├─             | ├                | $\vdash$     |
| -               | 143                             | ├              | ├                                                | <del>-</del> | -                                                | -                                                | ├                                                | ├-             | ⊢                | $\vdash$     |
| <del></del>     | 144<br>145                      | +              | <del> </del>                                     | ╁            | -                                                | -                                                | ╁                                                | $\vdash$       | $\vdash$         | $\vdash$     |
| -               | 146                             | $\vdash$       | $\vdash$                                         | ┼            | <del>                                     </del> | <del>                                     </del> | -                                                | <del> </del>   | ╁                | $\vdash$     |
| -               | 147                             | $\vdash$       | ╁                                                | $\vdash$     | ┢┈                                               | <del> -</del>                                    | $\vdash$                                         | ┢              |                  | $\vdash$     |
|                 | 148                             | -              | <del>                                     </del> | ╁            | $\vdash$                                         | -                                                | <del> </del>                                     |                | $\vdash$         | $\vdash$     |
|                 | 149                             | $\vdash$       | ╁                                                | $\vdash$     | $\vdash$                                         | ┢                                                | <del>                                     </del> | ╁              | ┢                | ┰            |
| -               | 150                             | $\vdash$       | $\vdash$                                         | -            | <del>                                     </del> |                                                  | $\vdash$                                         | $\vdash$       | $\vdash$         | $\vdash$     |
| · L             | 1 100                           | L              | L                                                |              | L                                                | 1                                                |                                                  | 1              |                  |              |